

# PORT OF TACOMA

## EB-1 PAVEMENT AND RESTROOM BUILDING PROJECT NO. 201105.01 CONTRACT NO. 071907

### PORT COMMISSIONERS:

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Director of Engineering

NORMAN GILBERT, PE  
Project Manager

### OWNER

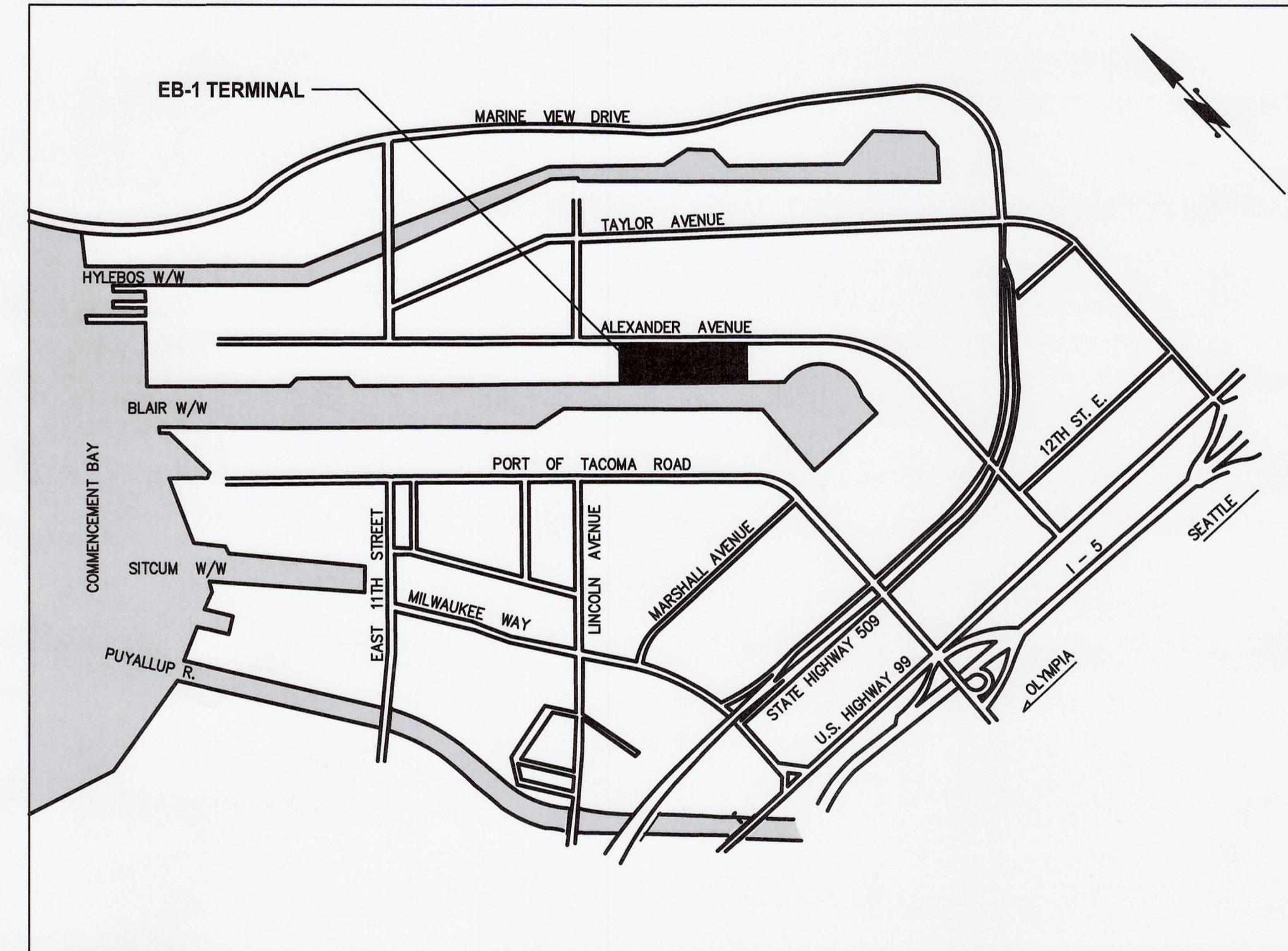
PORT OF TACOMA  
ONE SITCUM PLAZA,  
TACOMA, WA 98421  
PHONE: 253-383-5841

### CIVIL ENGINEER

KPFF CONSULTING ENGINEERS  
2407 N 31ST STREET  
TACOMA, WA 98407  
PHONE: 253-396-0150

PROJECT MANAGER:  
NORM GILBERT, P.E.  
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POINT OF CONTACT:  
BILL ARMOUR, P.E. LEED AP  
BILL.ARMOUR@KPFF.COM



### SITE NOTES

PARCEL: 0321354035  
PARCEL AREA: 94.62 ACRES  
PROJECT AREA: 3.77 ACRES

### PARCEL LEGAL TAX DESCRIPTION:

SECTION 35 TOWNSHIP 21 RANGE 03 QUARTER 43 POR OF SE LY SWLY OF ALEXANDER AVE EXC POR LY W/IN TR 18 & 19 OF PORT OF TACOMA ASSESSORS TRACTS TOG/W FOLL COM AT INTER OF LINCOLN AVE & ALEXANDER AVE TH S 45 DEG 53 MIN 41 SEC E 1519.21 FT TH S 44 DEG 6 MIN 19 SEC W 60 FT TO SLY MAR OF ALEXANDER AVE TH S 45 DEG 53 MIN 41 SEC E 769.96 FT TO POB TH S 44 DEG 6 MIN 19 SEC W 297.29 FT TH S 15 DEG 20 MIN W 178.56 FT TH S 44 DEG 06 MIN 19 SEC W 381.92 FT TH S 45 DEG 53 MIN 41 SEC E 515.50 FT TH N 44 DEG 6 MIN 19 SEC E 770 FT TO SLY MAR OF ALEXANDER AVE TH N 45 DEG 53 MIN 41 SEC W 669.25 FT TO POB APPROVED COMB BY CY OF TAC CED DEPT 8/27/12 COMB OF 4-034 & 4-028 SEG 2013-0219 DX01/31/13DX

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### RELATED PERMITS

SITE DEVELOPMENT PERMITS: SEE SDEV 23-0067

WORK ORDER PERMIT: SEE WO23-0093

BUILDING PERMIT: SEE BLDCN23-0053

ELECTRICAL AND PLUMBING PERMITS: TO BE SUBMITTED BY THE CONTRACTOR DURING CONSTRUCTION

<b>G1.0</b>		EB-1 PAVEMENT AND RESTROOM BUILDINGS	
OF 26		COVER SHEET	
1	CONT/CONS: 071907	TOWNSHIP: 21N	RANGE: 3E
	CONTRACT: 201105.01	DAT-HRZ: W53-SF	SECTION: 36
	PHASE: BID SET	VERT: PORT OF TACOMA BM# 0321354035	PRINTED BY: tkh Nov 21, 2023
	M. ID: 0321354035	PORT ADDRESS: ONE SITCUM PLAZA TACOMA WA, 98401-1837	
		DRAWING SCALE: AS SHOWN	
		DATE: 12/4/23	
<p>6695</p> <p>Port of Tacoma 2407 North 31st Street Suite 100 Tacoma, WA 98407 (253) 393-0535 Fax (253) 393-0162 P.O. Box 1857 Tacoma, WA 98460-1857</p> <p>MARK: REVISION: BY: APPR: DATE:</p> <p>SEK PROFESSIONAL ENGINEERS SERIAL NUMBER: 1241423</p> <p>THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION</p>			

## ABBREVIATIONS

#	NUMBER	FT	FOOT, FEET	SHT	SHEET
Ø	DIAMETER	G	GAS	SIM	SIMILAR
@	AT	GIS	GEOGRAPHIC INFORMATION SYSTEM	SPECS	SPECIFICATIONS
AB	AGGREGATE BASE	GPS	GLOBAL POSITIONING SYSTEM	SQ	SQUARE
AC	ASPHALT CONCRETE	GV	GATE VALVE	SQFT	SQUARE FEET
ACI	AMERICAN CONCRETE INSTITUTE	H or HORIZ	HORIZONTAL	SSMH	SANITARY SEWER MANHOLE
ACP	ASBESTOS CONCRETE PIPE OR ASPHALTIC CONCRETE PAVEMENT	HAZMAT	HAZARDOUS MATERIALS	STA	STATION
ADDL	ADDITIONAL	HDP	HIGH DENSITY POLYETHYLENE	STD	STANDARD
ADJ	ADJACENT	HORZ	HORIZONTAL	STL	STEEL
ADMIN	ADMINISTRATION	HP	HIGH POINT	SYM	SYMMETRIC or SYMBOL
AGGR	AGGREGATE	HSSD	HIGH STRENGTH STORM DRAIN	T/R or TOR	TOP of RAIL
ALT	ALTERNATE	HT	HEIGHT	TB	THRUST BLOCK
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ID	INSIDE DIAMETER	TBM	TEMPORARY BENCH MARK
APP or APPVD	APPROVED	IE	INVERT ELEVATION	TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
APPROX	APPROXIMATE	IN	INCH	TF	TRACK FEET
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	INCL	INCLUDE	T&B	TOP and BOTTOM
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION	IR	INDUSTRIAL REMEDIATION	TO	TURNOUT
AREMA	AMERICAN RAILWAY ENGINEERING MAINTENANCE OF WAY ASSOCIATION	JB	JUNCTION BOX	TOB	TOP of BANK
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	JS	JUNCTION STRUCTURE	TOS	TOE of SLOPE
ATB	ASHPALT TREATED BASE	KIP(S)	KILOPOUND(S)	TOP	TOP of PIPE
AVG	AVERAGE	L	LENGTH	TOR	TOP of RAIL
AWS	AMERICAN WELDING SOCIETY	LAT	LATERAL	TPU	TACOMA PUBLIC UTILITIES
AWWA	AMERICAN WATER WORKS ASSOCIATION	LB	POUND	TW	TOP of WALL
BFO	BURIED FIBER OPTIC	LF	LINEAL FOOT	TYP	TYPICAL
BLDG	BUILDING	LH	LEFT HAND	UNO	UNLESS NOTED OTHERWISE
BM	BENCH MARK or BEAM	LIN	LINEAL or LINEAR	UV	ULTRA-VIOLET
BMP or BMP'S	BEST MANAGEMENT PRACTICES	LOL	LAYOUT LINE	V	VERTICAL
BNDRY	BOUNDARY	LT	LIGHT	VAR	VARIABLE or VARIES
BNSF	BURLINGTON NORTHERN SANTA FE	MAX	MAXIMUM	VC	VERTICAL CURVE
BOP	BOTTOM of PIPE	MEP	MATCH EX PAVEMENT	VCP	VITRIFIED CLAY PIPE
BOT	BOTTOM	MH	MANHOLE	VERT	VERTICAL
BRG	BEARING	MHHW	MEAN HIGHER HIGH WATER	W	WATER, WEST, WIDTH
BRZ	BRONZE	MHW	MEAN HIGH WATER	W/	WITH
BTW or BTWN	BETWEEN	MIN	MINIMUM	W/O	WITHOUT
BV	BALL VALVE	MISC	MISCELLANEOUS	WHS	WELDED HEADED STUD
CY	CONTAINER YARD OR CUBIC YARD	MJ	MECHANICAL JOINT	WM	WATER METER
C/L	CENTERLINE	MLLW	MEAN LOWER LOW WATER	WWAY	WALKWAY
CAB	CRUSHED AGGREGATE BASE	MLW	MEAN LOW WATER	XO	CROSSOVER
CB	CATCH BASIN	MSP	MANUAL of STANDARD PRACTICE	XS	EXTRA STRONG
CC	CENTER TO CENTER	MUTCD	MANUAL of UNIFORM TRAFFIC CONTROL DEVICES		
CFS	CUBIC FEET per SECOND	N	NORTH or NORTHING		
CIP	CAST IRON PIPE	NE	NORTHEAST		
CL	CENTER LINE or CLASS	NIC	NOT IN CONTRACT		
CLF	CHAIN LINK FENCE	NO	NUMBER		
CLR	CLEAR or CLEARANCE	NTS	NOT TO SCALE		
CMP	CORRUGATED METAL PIPE	NW	NORTHWEST		
CO	CLEAN OUT	OC	ON CENTER		
COT	CITY of TACOMA	OD	OUTSIDE DIAMETER		
CONC	CONCRETE	OHWL	OVERHEAD		
CONT	CONTINUE or CONTINUOUS	P/L or PL	PROPERTY LINE		
CONT'D	CONTINUED	PB	PULL BOX		
COORD	COORDINATE	PC	POINT of CURVATURE		
COUP	COUPLING	PCC	PORTLAND CEMENT CONCRETE		
CPP	CORRUGATED PLASTIC PIPE	PERF	PERFORATED		
CPT	CONE PENETROMETER TEST	PERP	PERPENDICULAR		
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PG	PERFORMANCE GRADE		
CSBC	CRUSHED SURFACING BASE COURSE	PI	POINT of INTERSECTION		
CSG	CASING	PJ	PUSH-ON JOINT		
CSTC	CRUSHED SURFACING TOP COURSE	PNT	POINT		
CTB	CEMENT TREATED BASE	POT	PORT of TACOMA		
CTR	CENTER	PP	POWER POLE		
Dc	DEGREE of CURVATURE	PR	PRESSURE RATING		
DIA	DIAMETER	PRESS RED	PRESSURE REDUCER		
DIAG	DIAGONAL	PROP	PROPOSED		
DIM	DIMENSION	PRV	PRESSURE REDUCING VALVE		
DIP	DUCTILE IRON PIPE	PRVS	PRESSURE RELIEF VALVE		
DWG	DRAWING	PSF	POUNDS per SQUARE FOOT		
DWY	DRIVEWAY	PS	POINT of SWITCH		
E	EAST or EASTING	PSI	POUNDS per SQUARE INCH		
EA	EACH	PT	POINT or POINT of TANGENCY		
EG	EXISTING GRADE	PVC	POLYVINYL CHLORIDE or POINT of VERTICAL CURVE		
EL or ELEV	ELEVATION	PVI	POINT of VERTICAL INTERSECTION		
or ELECT	ELECTRICAL	PVMT	PAVEMENT		
ENGR	ENGINEER	R	RIDGE or RADIUS		
EP	EDGE of PAVEMENT	R/W or ROW	RIGHT of WAY		
EQ	EQUAL	RCP	REINFORCED CONCRETE PIPE		
ES	ELECTRICAL SUBSTATION or EACH SIDE	RD	ROAD		
ETC	ET CETERA	REF	REFERENCE		
EX or EXIST	EXISTING	REINF	REINFORCE or REINFORCING		
EXP	EXPANSION JOINT	REQD	REQUIRED		
JT	FINISH FLOOR	RH	RIGHT HAND		
FF	FINISH GRADE	RP	RADIUS POINT		
FH	FIRE HYDRANT	RR	RAILROAD		
FIN	FINISH	RT.	RIGHT		
FL	FLOW LINE or FLANGE	S	SLOPE or SOUTH		
FLGD	FLANGED JOINT	SD	STORM DRAIN		
FM	FORCE MAIN	SDR	STANDARD DIMENSION RATIO		
FND	FOUNDATION	SDMH	STORM DRAIN MANHOLE		
FS	FINISHED SURFACE	SE	SOUTH-EAST		
FSM	FIRE SERVICE METER	SECT	SECTION		

## GENERAL NOTES:

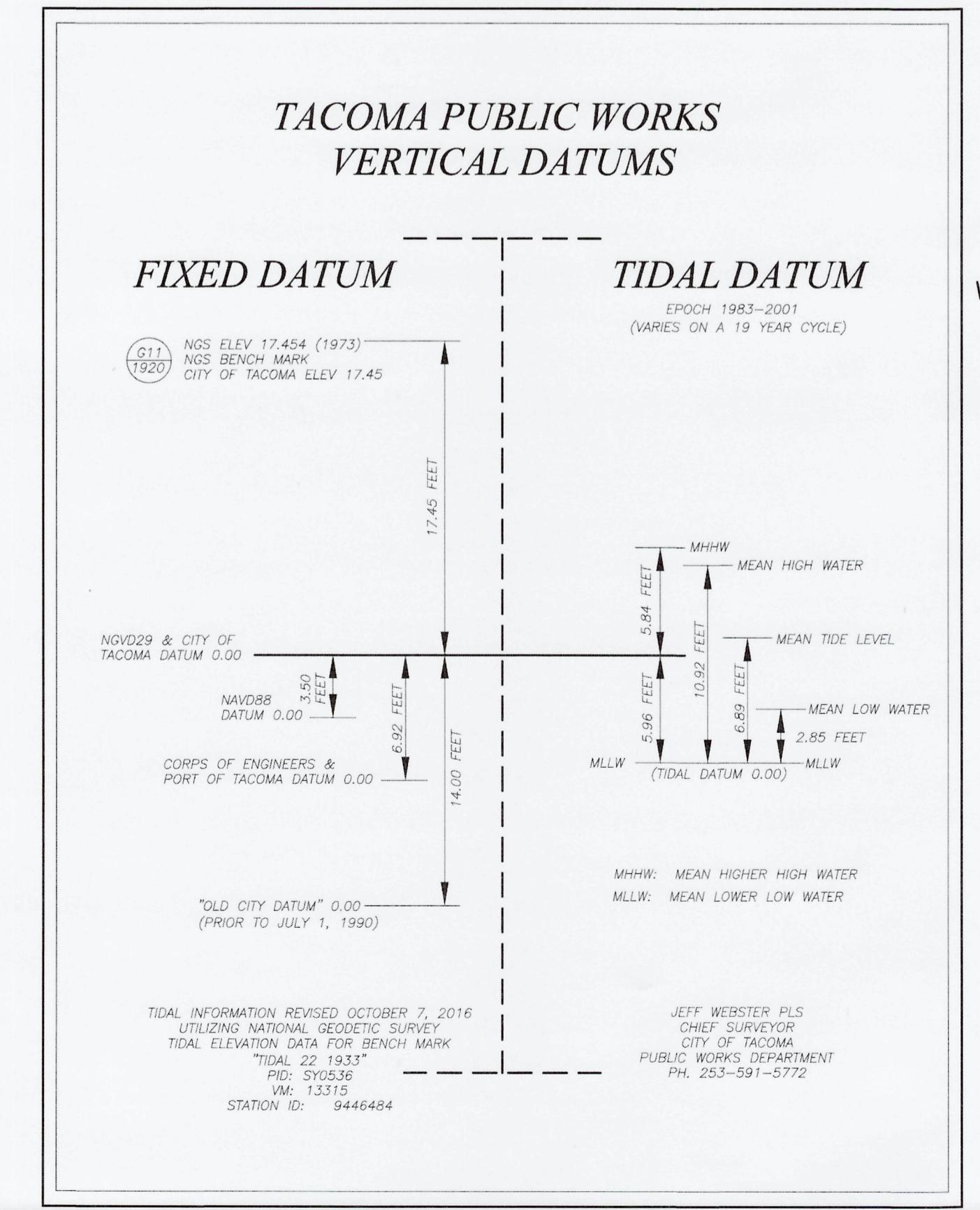
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, CITY OF TACOMA STANDARDS, AREMA, TACOMA RAIL, AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS 2022.
- BEFORE ANY CONSTRUCTION MAY BEGIN, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE PORT AND CITY OF TACOMA PERMIT DEPARTMENT AND INSPECTION STAFF.
- A COPY OF THESE APPROVED PLANS AND ALL AMENDMENTS SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS IF NECESSARY BEFORE INITIATING OFF-SITE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, SPOTTERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND OF THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT OF WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING TEMPORARY TRAFFIC CONTROL PLANS, PERMITTING, AND COORDINATION TO PROVIDE ADEQUATE TEMPORARY TRAFFIC CONTROL ACCORDING TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND WSDOT STANDARD PLANS.
- PRIOR TO THE START OF EXCAVATION, THE CONTRACTOR SHALL CALL 1-800-424-555 FOR UTILITY LOCATES AND COORDINATE UTILITY WORK WITH THE UTILITY SERVICE PROVIDER.
- THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM CONDITIONS. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- TACOMA WATER FACILITIES MUST REMAIN ACCESSIBLE AT ALL TIMES. ANY DAMAGES TO TACOMA WATER FACILITIES WILL BE REPAIRED BY TACOMA WATER CREWS AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN SIDE SEWER CONNECTION PERMITS THROUGH CITY OF TACOMA SITE DEVELOPMENT. CONTACT (253) 591-5760 OR TACOMAPERMITS.ORG. SEPARATE PERMITS ARE REQUIRED FOR EACH CONNECTION.
- CHANGES OR REVISIONS TO THE ORIGINALLY APPROVED PERMIT SUBMITTAL SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION.
- THE APPLICANT SHALL SUBMIT RECORD DRAWINGS ("AS-BUILT") TO THE CITY WHEN THE PROJECT IS COMPLETED.
- THE ENGINEER OF RECORD SHALL PROVIDE AN ENGINEER'S CERTIFICATION TO THE CITY OF TACOMA AFTER FACILITY INSTALLATION AND PRIOR TO PERMIT FINAL INSPECTION AND/OR CLOSEOUT.
- FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UN-WORKED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS.

## HORIZONTAL DATUM:

- WASHINGTON STATE COORDINATE SYSTEM, SOUTH ZONE, NAD83-2011. REFER TO SHEETS G1.3-G1.5 FOR ADDITIONAL INFORMATION.

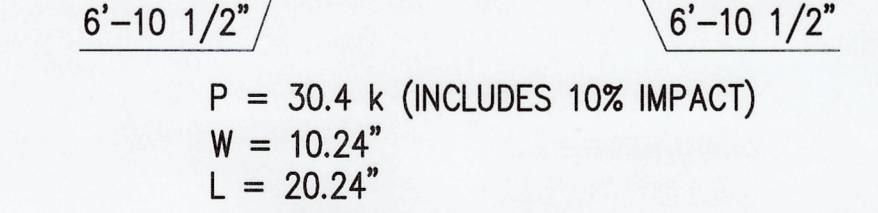
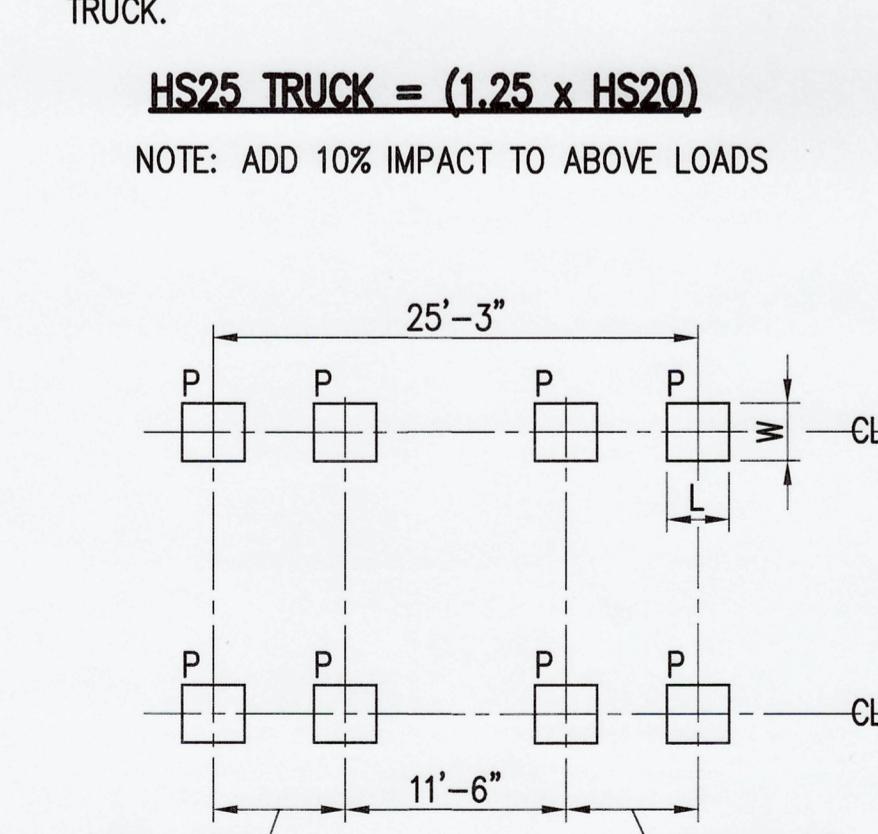
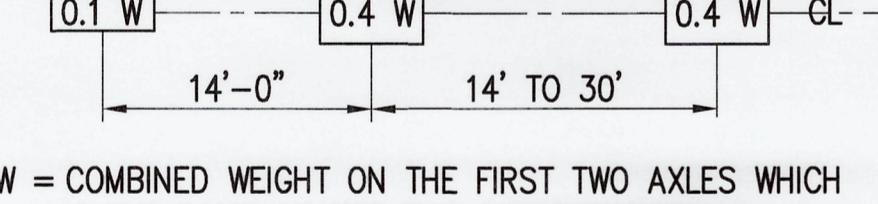
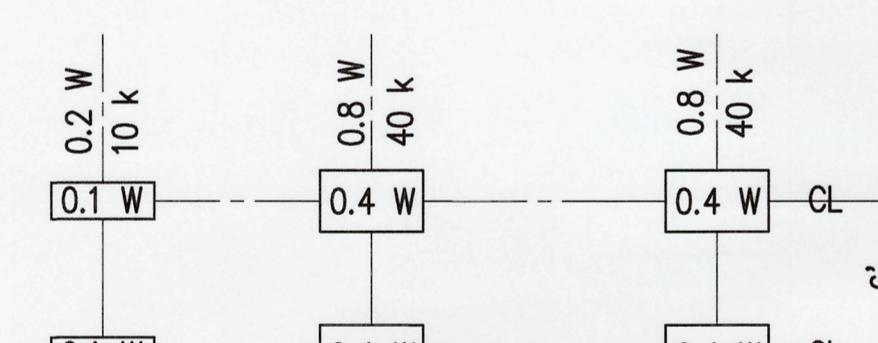
## VERTICAL DATUM:

- PORT of TACOMA - MLLW 1983-2001 EPOCH REFER TO SHEETS G1.3-G1.5 FOR MONUMENT LOCATIONS AND ADDITIONAL INFORMATION.



## DESIGN LOADING CRITERIA:

CONCENTRATED LIVE LOADS:  
HS25 TRUCK  
STRADDLE CARRIER  
CONTAINER HANDLER



W = 10.24"  
L = 20.24"  
q = 145 psi

KALMAR CSC 340 STRADDLE CARRIER

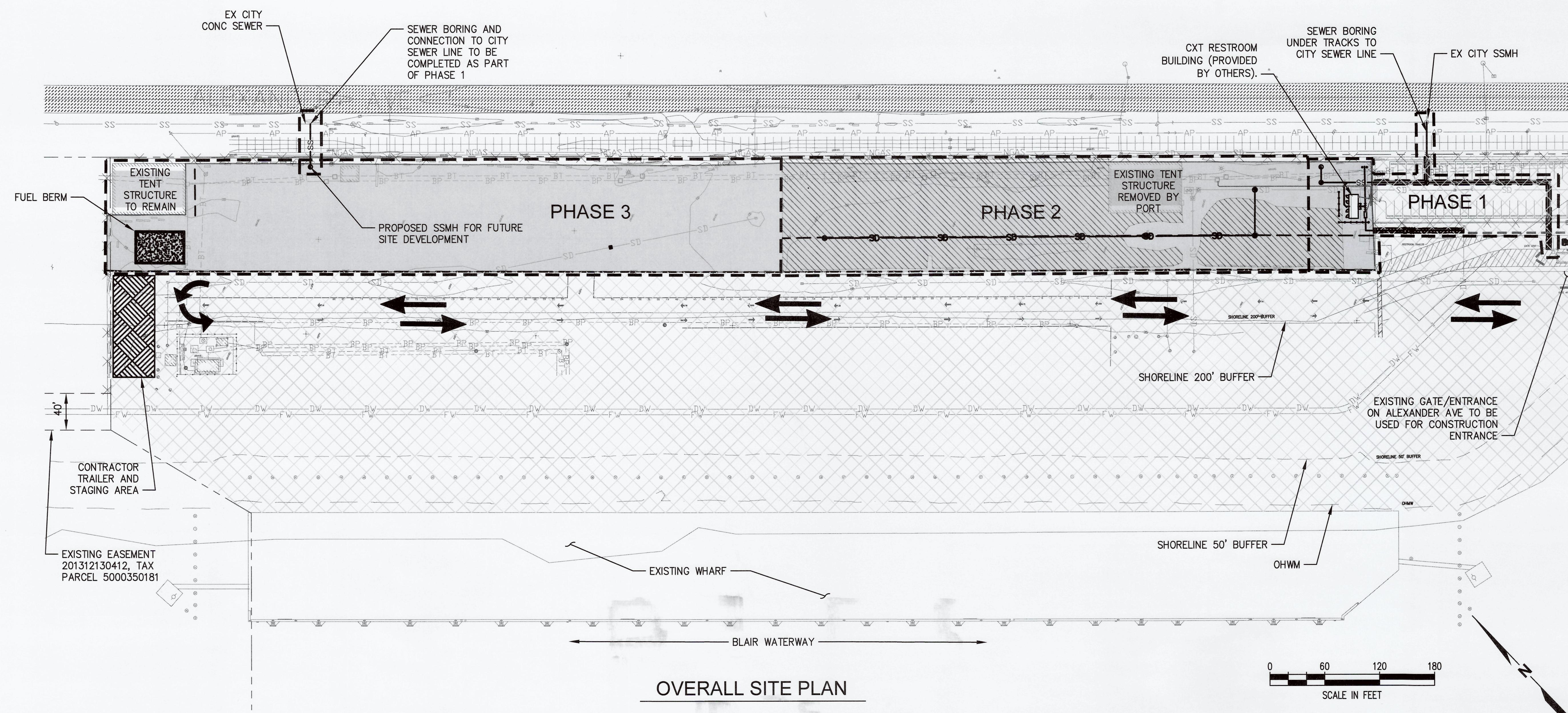
NOELL SC544 STRADDLE CARRIER



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12/4/23

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### LEGEND

PARCEL BOUNDARY
SHORELINE 200' BUFFER
SHORELINE 50' BUFFER
OHWM
LIMITS OF WORK / PHASE BOUNDARY
CONTRACTOR TRAILER AND STAGING AREA
EXISTING TERMINAL PAVEMENT
PROPOSED PAVEMENT
REMOVE EXISTING PAVEMENT AND REPAVE
PROPOSED SANITARY SEWER
PROPOSED STORM DRAIN
PROPOSED DOMESTIC WATER
CONSTRUCTION ACCESS ROUTE THROUGH TERMINAL

### NOTES

1. SITE PLAN INFORMATION TAKEN FROM SURVEY PERFORMED BY KPFF IN MAY AND DECEMBER 2020, AND AS-BUILT INFORMATION FROM PREVIOUS SITE PROJECTS. SEE SHEETS C1.3-C1.5.
2. ALL EXISTING FEATURES TO REMAIN UNLESS NOTED OTHERWISE.

### PHASING AND SEQUENCING NOTES

1. PHASE 1 WORK SHALL CONSIST OF COMPLETION OF THE WORK WITHIN THE PHASE 1 AREA NOTED ON THE PLANS. THIS SHALL INCLUDE DEMOLITION, GRADING, PAVING, INSTALLATION OF UTILITIES AND THE RESTROOM BUILDING. FOLLOWING COMPLETION OF THE PHASE 1 WORK, THE PHASE 1 AREA SHALL BE TURNED OVER TO THE PORT FOR FULL USAGE OF THE AREA.
2. PHASE 2 WORK SHALL CONSIST OF COMPLETION OF THE WORK WITHIN THE PHASE 2 AREA NOTED ON THE PLANS. THIS SHALL INCLUDE DEMOLITION, GRADING, PAVING, AND INSTALLATION OF STORM DRAIN UTILITIES. FOLLOWING COMPLETION OF THE PHASE 2 WORK, THE PHASE 2 AREA SHALL BE TURNED OVER TO THE PORT FOR FULL USAGE OF THE AREA.
3. PHASE 3 WORK SHALL CONSIST OF COMPLETION OF THE WORK WITHIN THE PHASE 3 AREA NOTED ON THE PLANS. THIS SHALL INCLUDE DEMOLITION, GRADING, PAVING, AND INSTALLATION OF STORM DRAIN UTILITIES. FOLLOWING COMPLETION OF THE PHASE 3 WORK, THE PHASE 3 AREA SHALL BE TURNED OVER TO THE PORT FOR FULL USAGE OF THE AREA.
4. CONTRACTOR SHALL MAINTAIN DAILY COORDINATION WITH THE PORT AND TENANT, AND NOT INFRINGE ON TERMINAL ACTIVITIES.

<b>G1.2</b>		<b>EB-1 PAVEMENT AND RESTROOM BUILDINGS</b>														
<b>GENERAL SITE AND PHASING PLAN</b>																
6695	OF 26	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36												
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<table border="1"> <tr> <td>APPROVED: <i>Miles Howell</i></td> <td>TUH 11/21/2023</td> </tr> <tr> <td>12/13/23</td> <td>CHECKED BY DATE</td> </tr> <tr> <td>SEK <i>Miles Howell</i></td> <td>PEOJ. ENGR DATE</td> </tr> <tr> <td>11/21/2023</td> <td>PRINTED BY: thibig Nov 21, 2023</td> </tr> <tr> <td colspan="2">PROFESSIONAL STAMP</td> </tr> <tr> <td colspan="2">MADE KINGSLY BY KPFF CONSULTING ENGINEERS INC. PROFESSIONAL STAMP 12/4/23</td> </tr> </table>					APPROVED: <i>Miles Howell</i>	TUH 11/21/2023	12/13/23	CHECKED BY DATE	SEK <i>Miles Howell</i>	PEOJ. ENGR DATE	11/21/2023	PRINTED BY: thibig Nov 21, 2023	PROFESSIONAL STAMP		MADE KINGSLY BY KPFF CONSULTING ENGINEERS INC. PROFESSIONAL STAMP 12/4/23	
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